

PROPERTY	TEST METHOD	SI VALUE	U.S. VALUE
MECHANICAL			
Density	ASTM D 3574, Test A	7.1 kg/m ³	0.44 lb/ft ³
Load Deflection At 25% Compression	Boeing BMS 8-300	156 N/323 cm ²	35 lb/50 in ²
Compression Set At 50% Deflection	ASTM D 3574, Test D	< 40%	< 40%
Flexibility	Boeing BMS 8-300	No creasing or tearing	No creasing or tearing
Tensile Strength	ASTM D 3574, Test E	> 59 kPa	> 8.5 psi
THERMAL			
Thermal Conductivity (k)	ASTM C 518 at mean temperature of 24°C (75°F)	0.043 W/(m·K)	0.30 (Btu·in)/(hr·ft ² ·°F)
Continuous Use Temperature	Recommended maximum	200°C	400°F
FLAMMABILITY			
Oxygen Index	ASTM D 2863	30%	30%
Vertical Burn:	FAR §25.853(a), Appendix F, Part I, (a)(1)(i)		
After flame time		0 seconds	0 seconds
Burn length		46 mm	1.8 inches
Dripping		None	None
Smoke Emission:	FAR §25.853(d), Appendix F, Part V		
D _s at 4.0 minutes		3	3
Toxic Gas Generation:	Boeing BSS 7239, flaming mode		
CO		150 ppm	150 ppm
HCN		Not detected	Not detected
HF		Not detected	Not detected
HCl		Not detected	Not detected
SO ₂		Not detected	Not detected
NO _x		Not detected	Not detected
AGING/OUTGASSING			
Dry Oven Aging:	Boeing BMS 8-300, ASTM D 3574, Test D and FAR §25.853(a), Appendix F, Part I, (a)(1)(i) after aging at 70°C (158°F) for 7 days in accordance with ASTM D 573		
Load deflection change		± 2%	± 2%
Compression set change		± 4%	± 4%
Volume shrinkage		< 2%	< 2%
Vertical Burn - After flame time		0 seconds	0 seconds
Vertical Burn - Burn length		46 mm	1.8 inches
Vertical Burn - Dripping		None	None
Outgassing:	ASTM E 595		
TML		< 1.0 %	< 1.0 %
CVCM		< 0.1 %	< 0.1 %
ACOUSTICAL			

ACOUSTICAL ABSORPTION COEFFICIENTS FOR FLEXED FOAM

(metric sabins/m² or sabins/ft²)

ASTM C 423 and E 795, Type A Mounting

Thickness	Frequency (Hz)						NRC
	125	250	500	1000	2000	4000	
25 mm (1 inch)	0.15	0.30	0.71	0.94	0.97	0.79	0.75

**The above are typical values subject to normal manufacturing variation.*